

Fig. 1

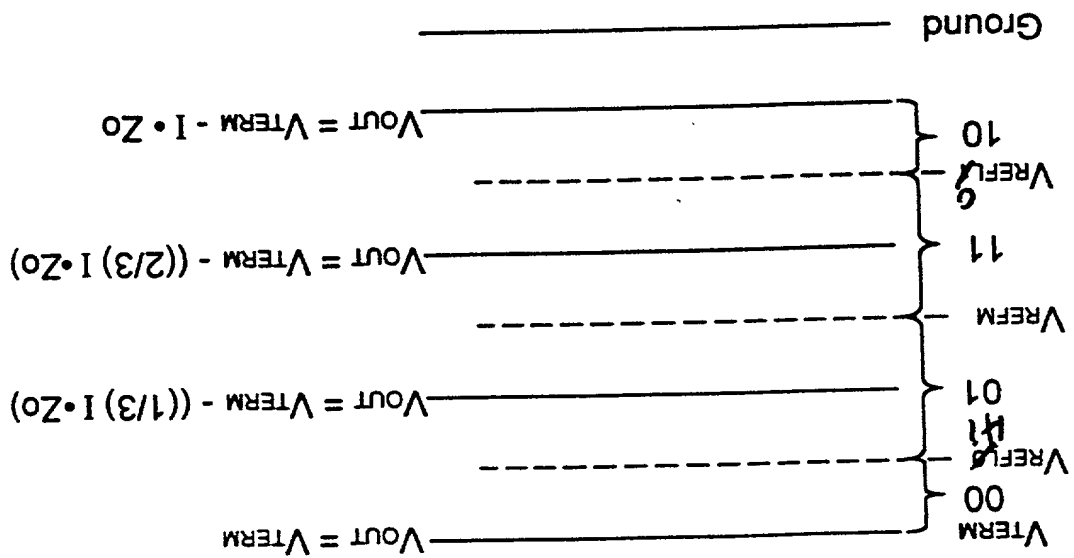


Fig. 2

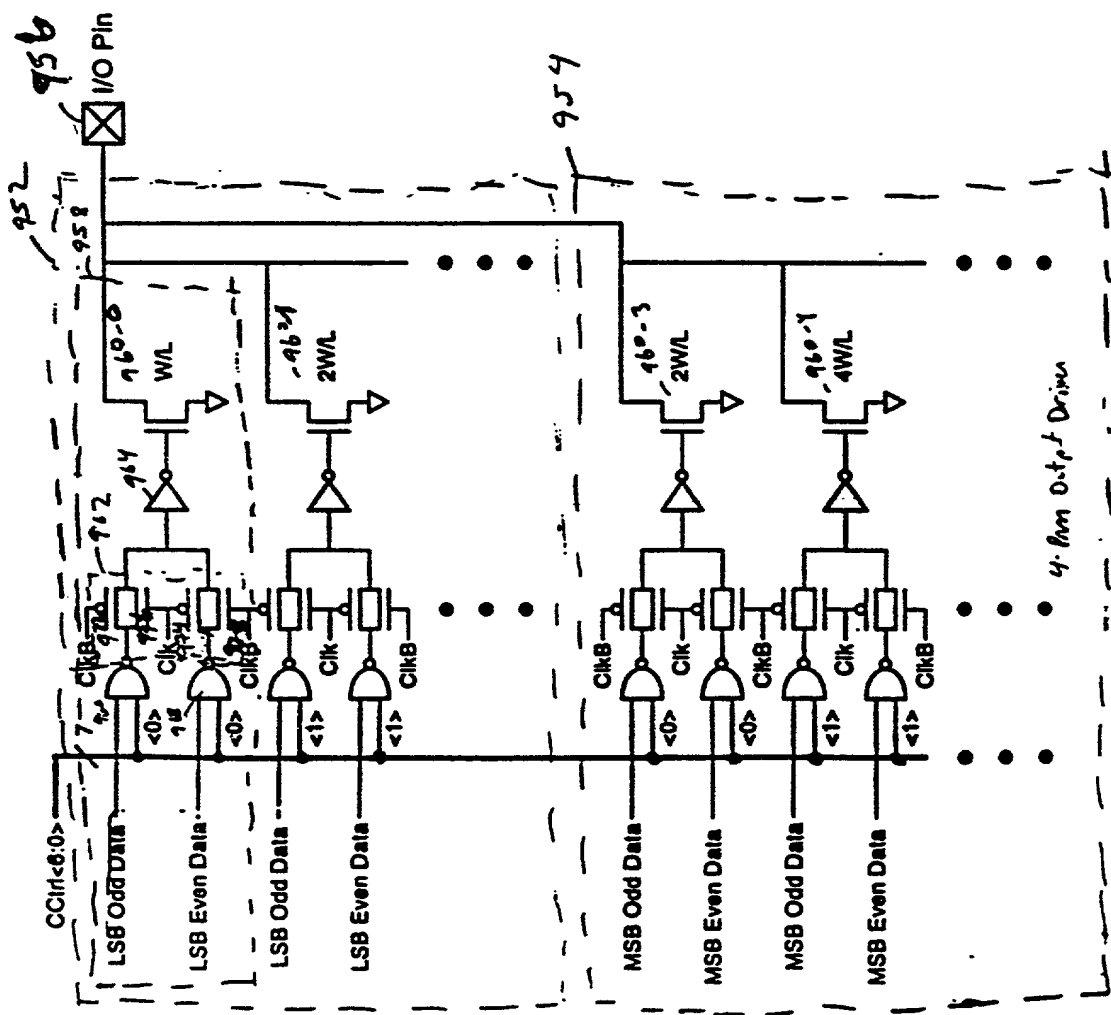


FIG. 3A

7638

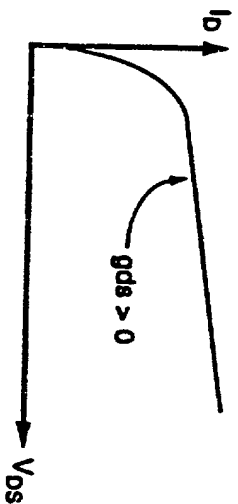


FIG. 4A

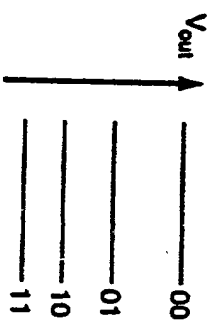


FIG. 4B

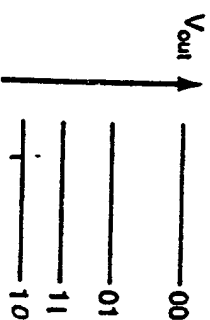
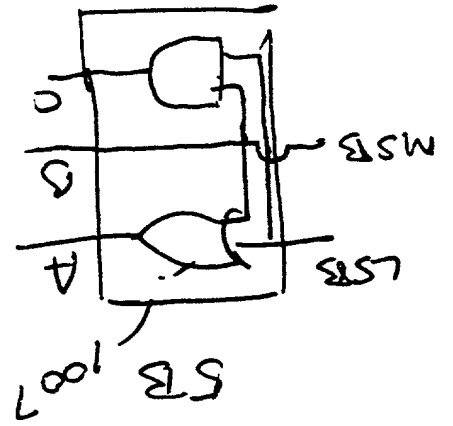
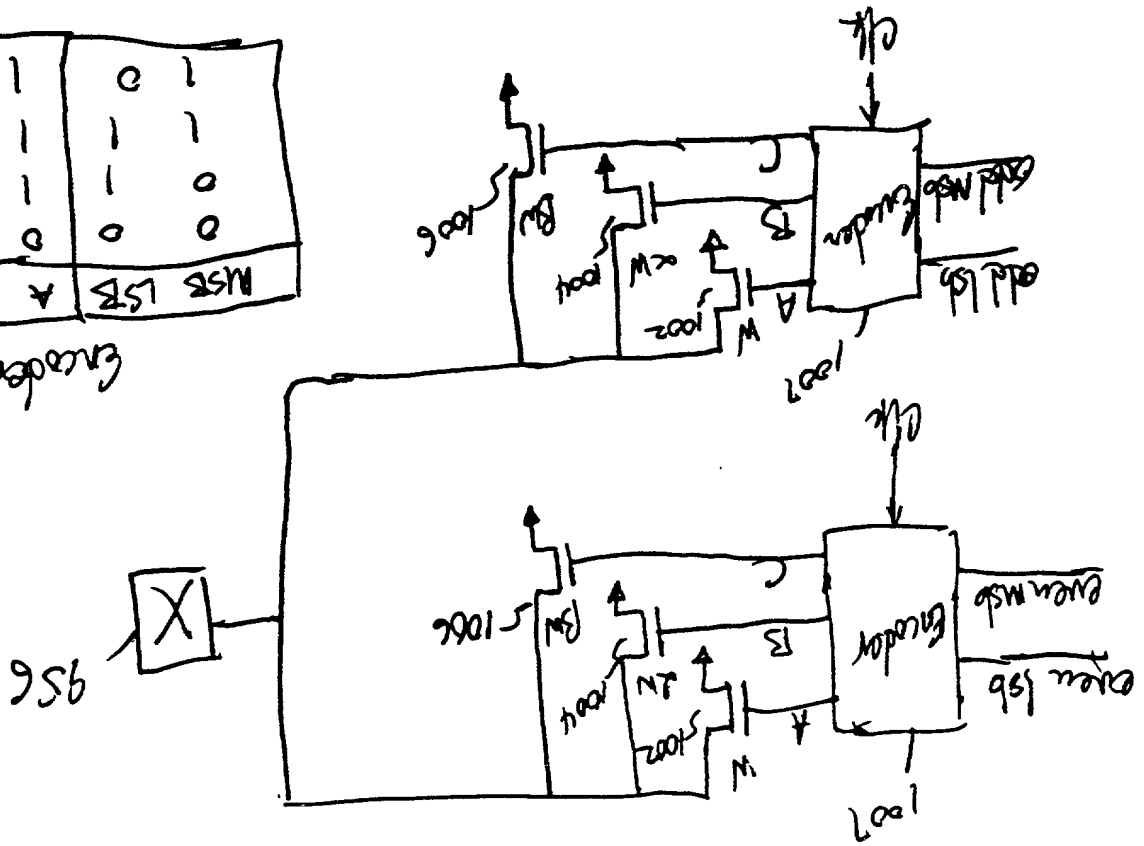


FIG. 4C

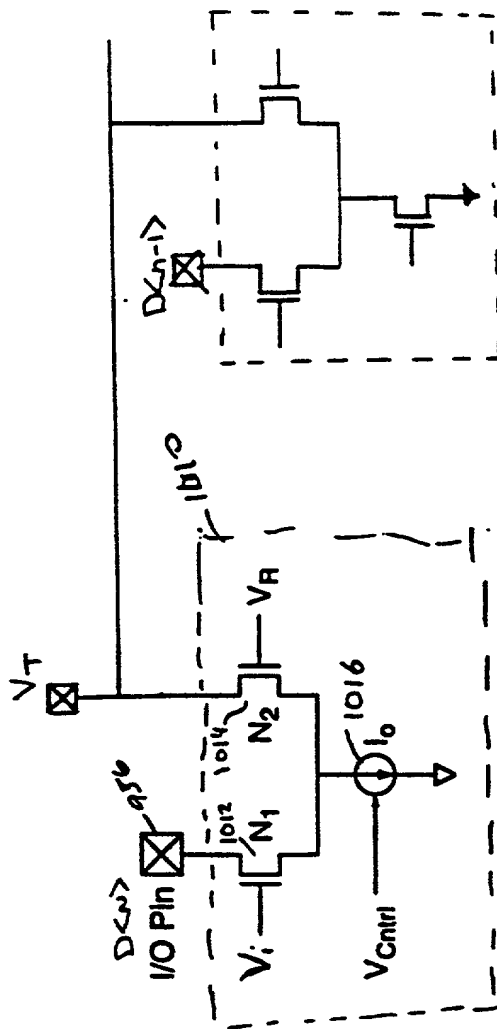


Erweiterung



176. 5A

601



circuit to Reduce Switching Noise

716

9

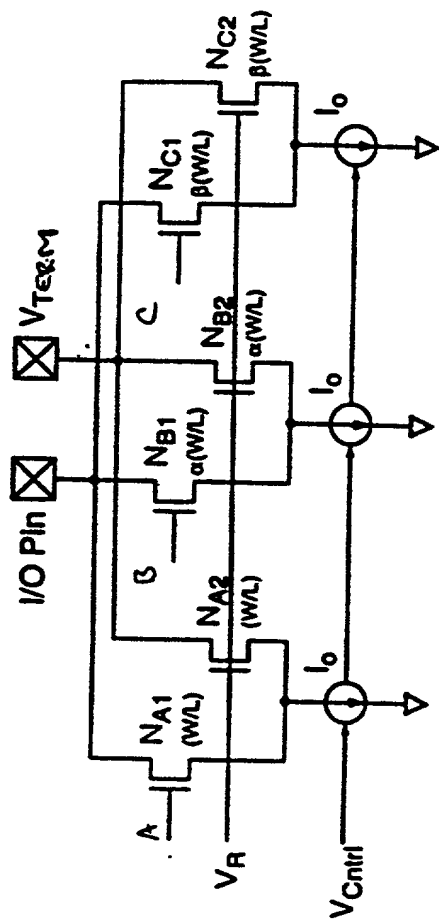
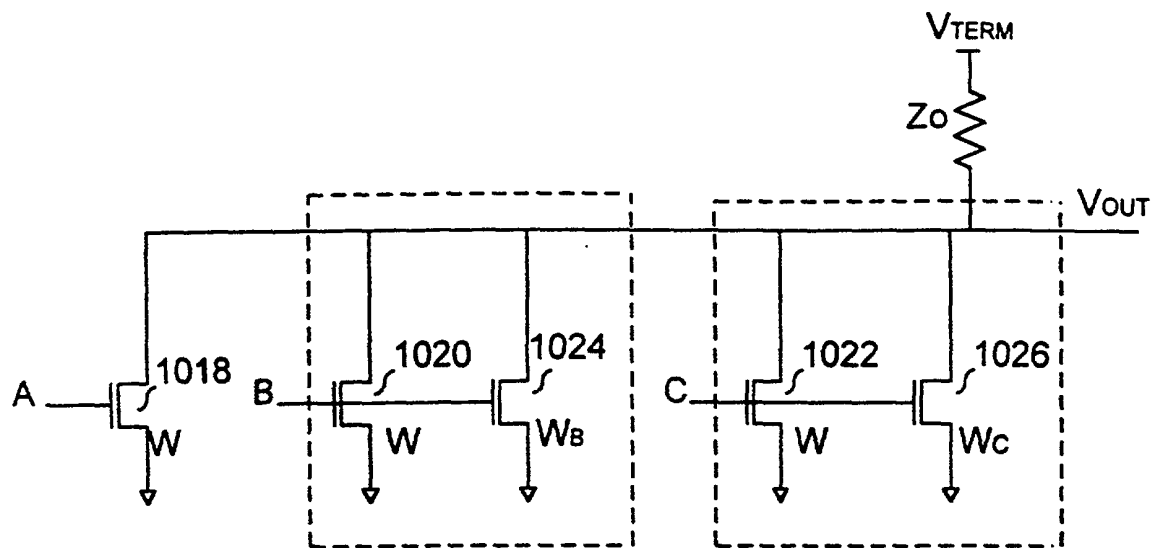


FIG. 7



GDS Compensated Multi-PAM Output Driver

FIG.

8

1042 ↗

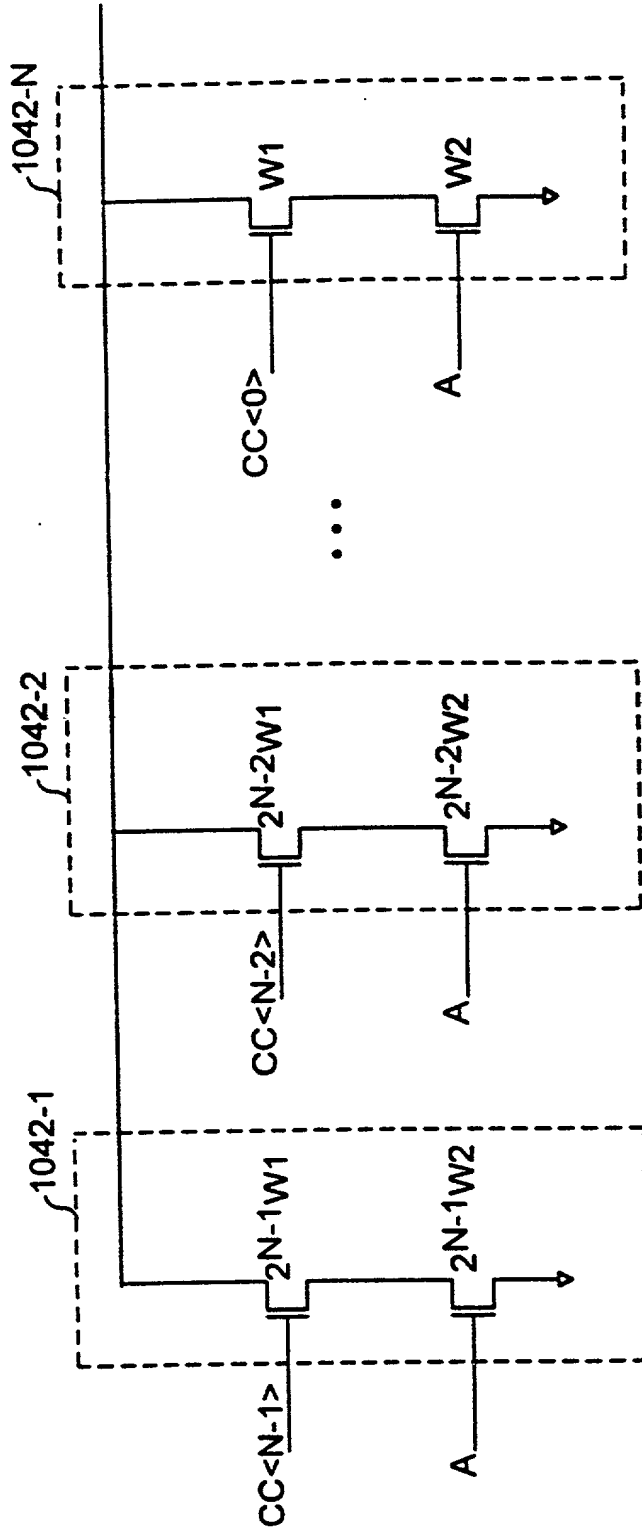
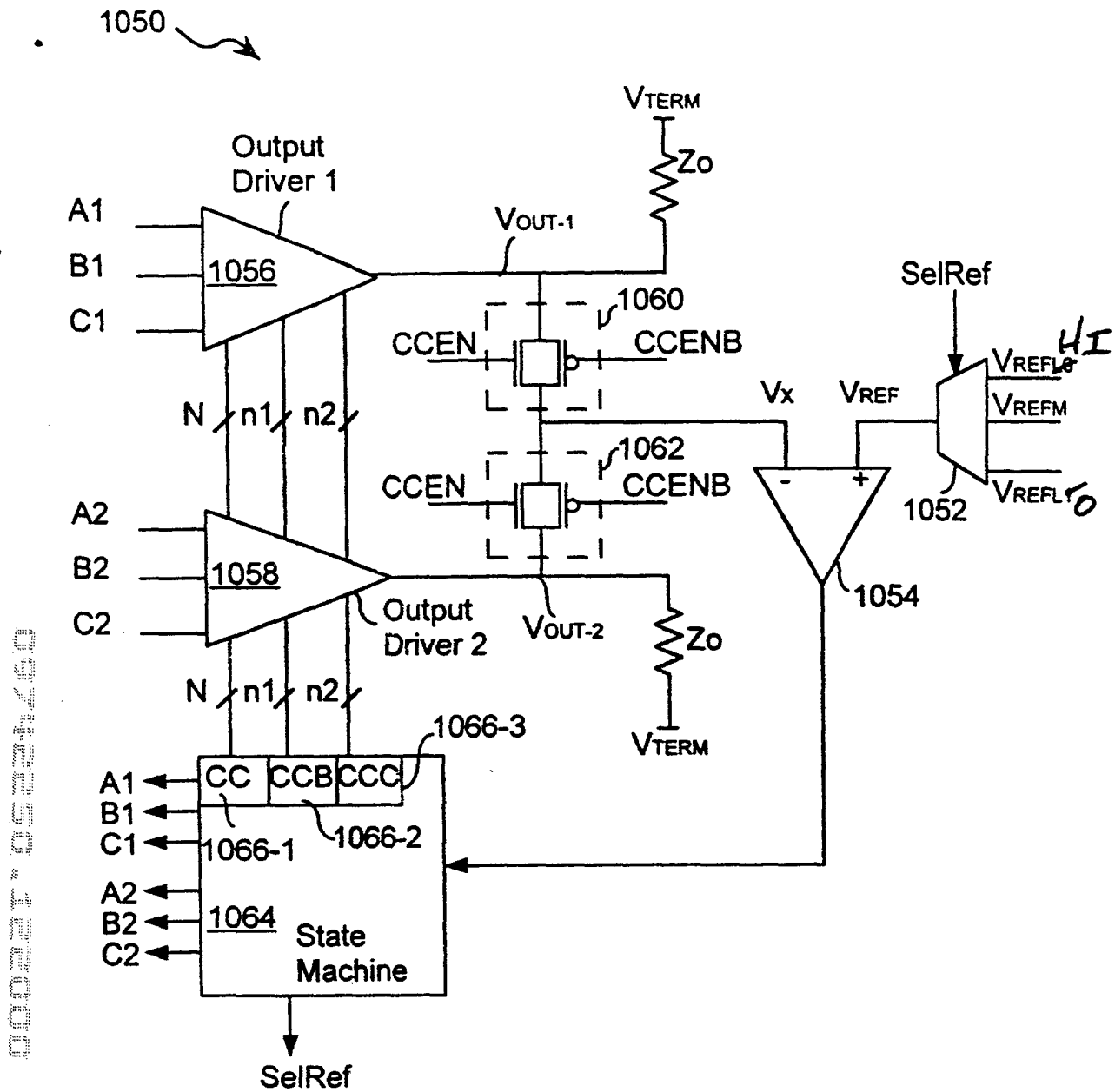


FIG. 9B



Circuit for Calibrating the GDS Compensated Output Driver
with Current Control

FIG. 10

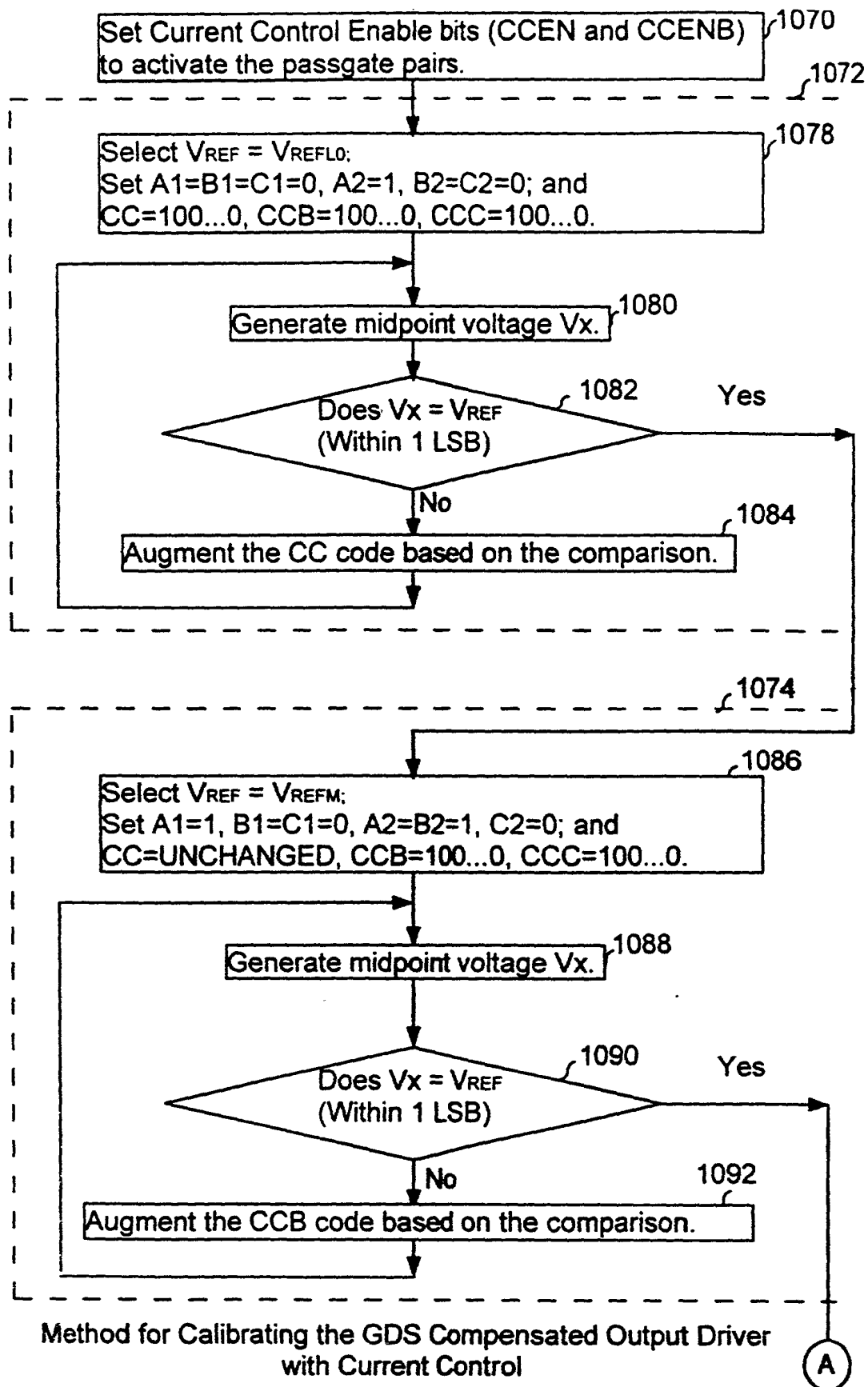
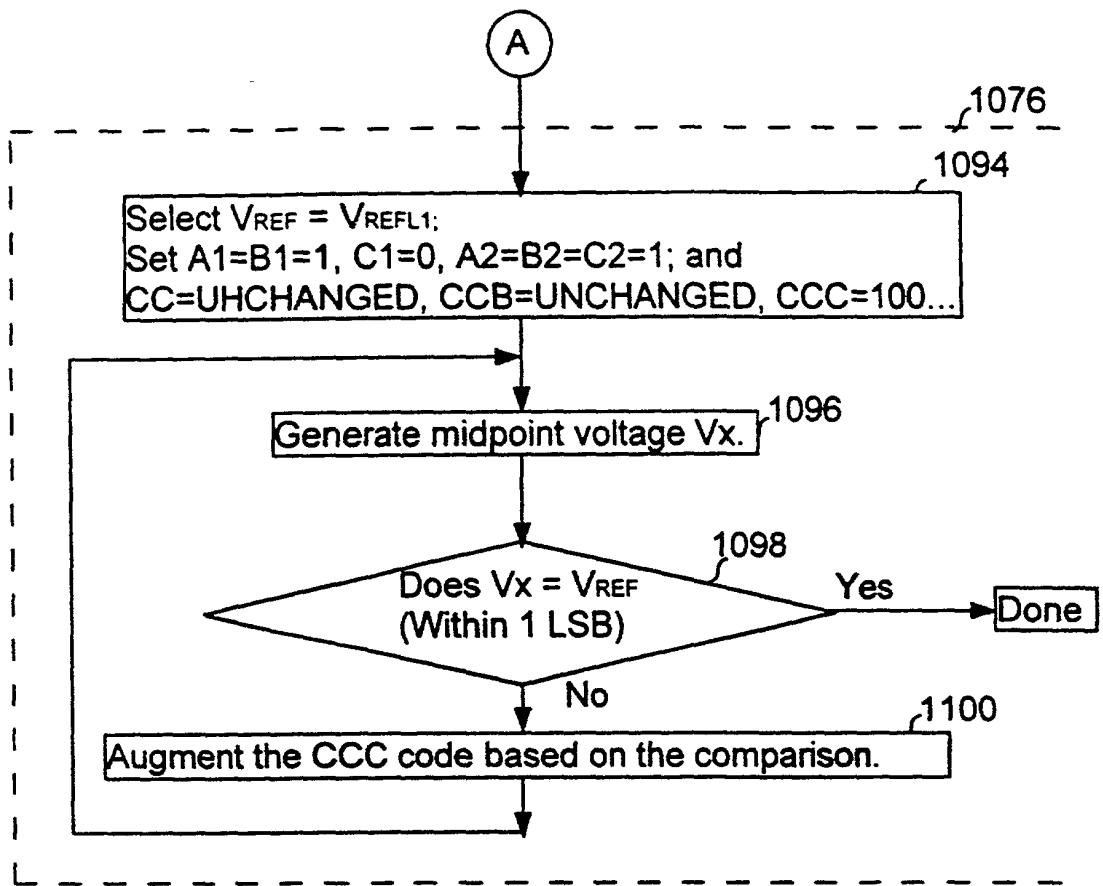


FIG. 11A



Method for Calibrating the GDS Compensated Output Driver
with Current Control

FIG. 11B

FIG. 1a

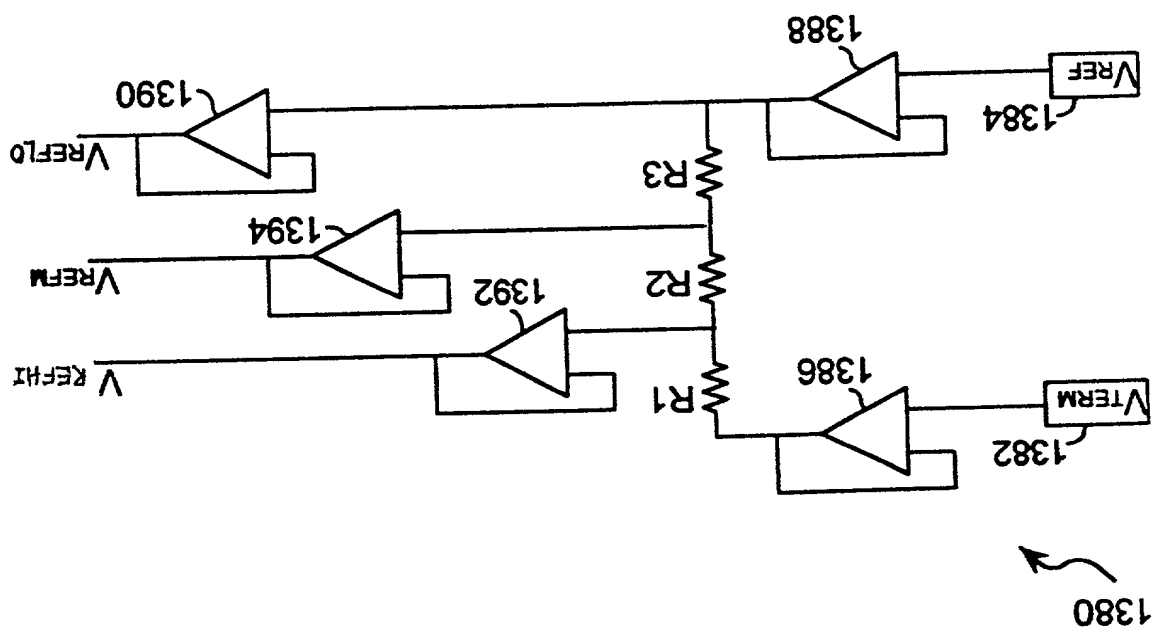


FIG 13A

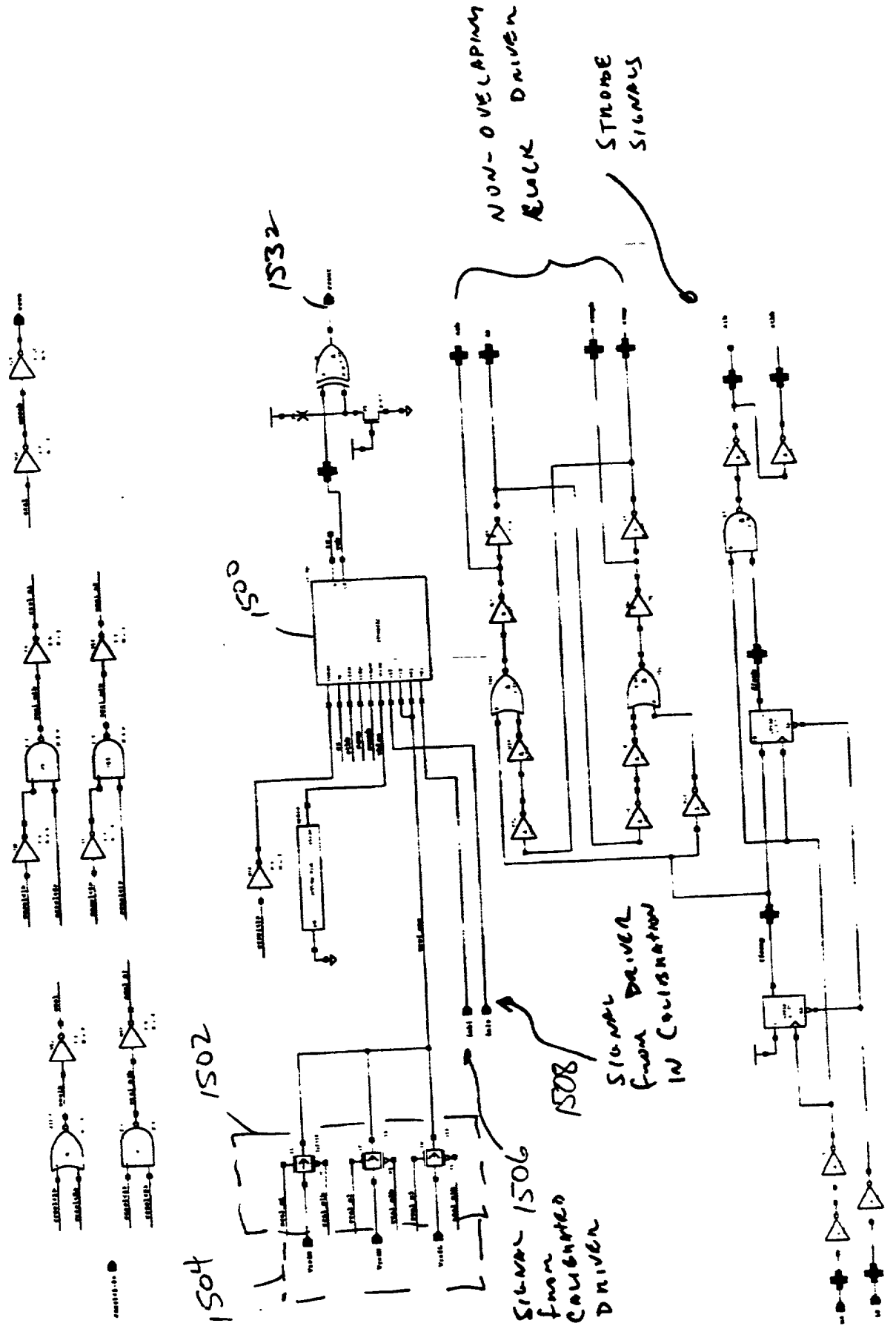
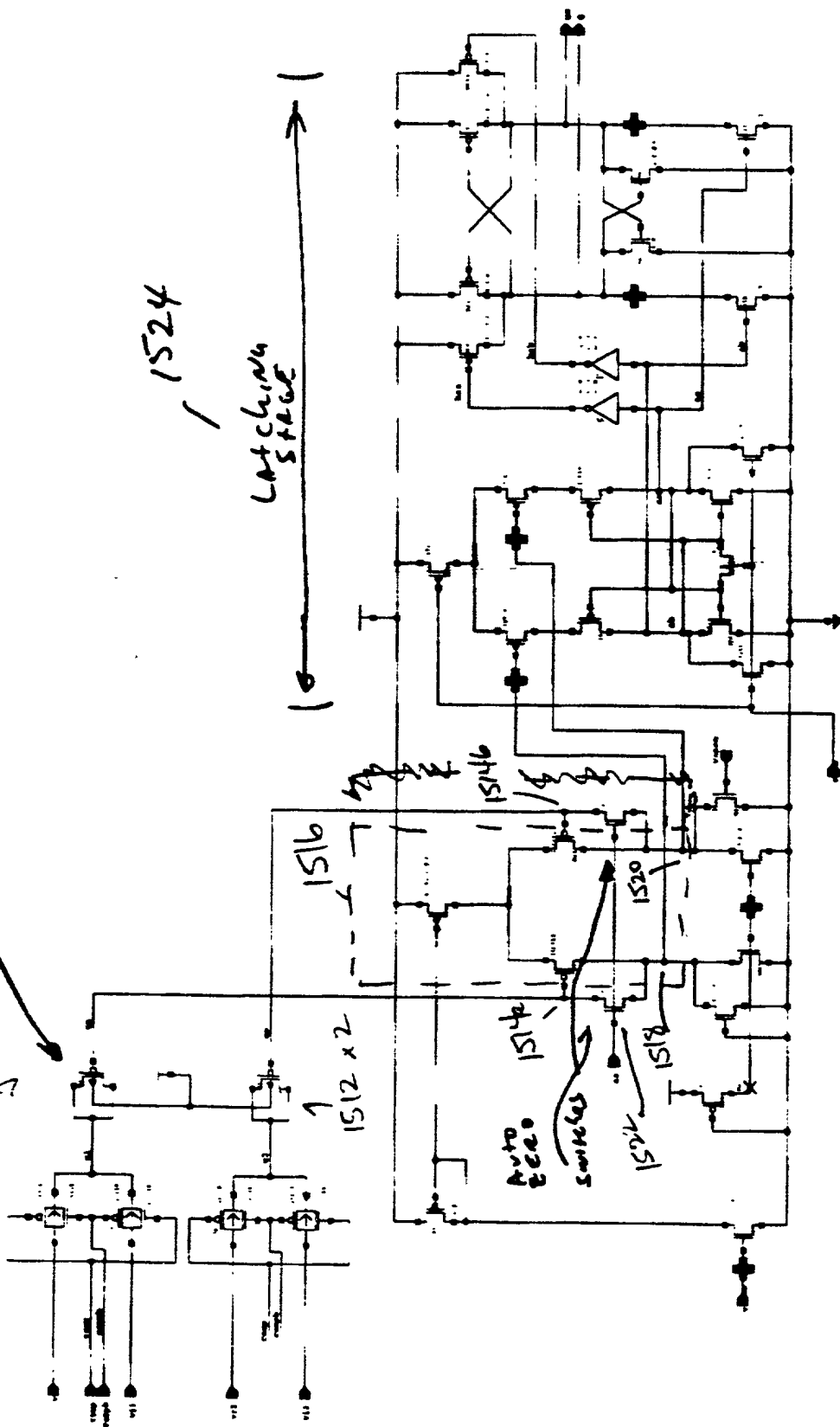


Fig 13b

000000000000000000

1510 1500

Coupling Caps



0001526 * cc cal chk

Wave	Symbol
D0:A0:V(ccout)	X
D0:A0:V(ds)	*
D0:A0:V(es)	-

Voltages (in)
1.5
1
500m
0

CANCELLATION
or auto-zero

Compare

1528

Voltages (in)
1.5
1
500m
0

Voltages (in)
1.5
1
500m
0

STORE
DATA

1530

2.832u 2.834u 2.836u 2.838u 2.84u 2.842u 2.844u 2.846u 2.848u 2.85u 2.852u 2.854u 2.856u 2.858u
Time (in) (TIME)

* cc cal chk

Wave	Symbol
D0:A0:V(vrefm)	X
D0:A0:V(vrhl)	○
D0:A0:V(vrlo)	△

fixed 1506

EXTENSION
REFERENCE
from 1502

slow ramp 1508

Voltages (in)
1.6
1.4
1.2

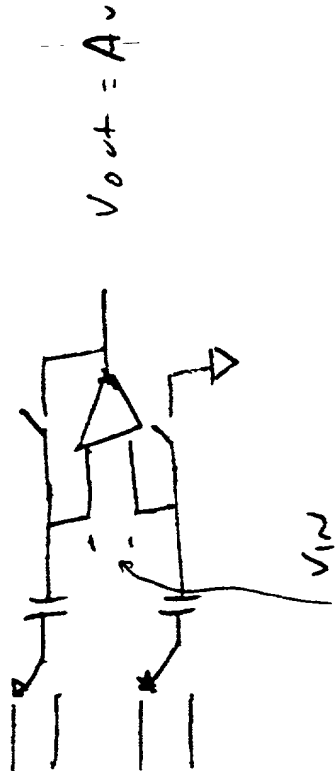
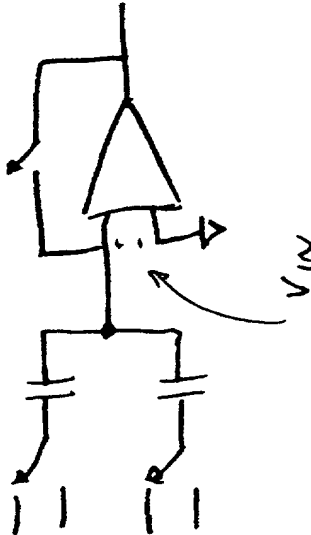
FIG. 13C

2.832u 2.834u 2.836u 2.838u 2.84u 2.842u 2.844u 2.846u 2.848u 2.85u 2.852u 2.854u 2.856u 2.858u
Time (in) (TIME)

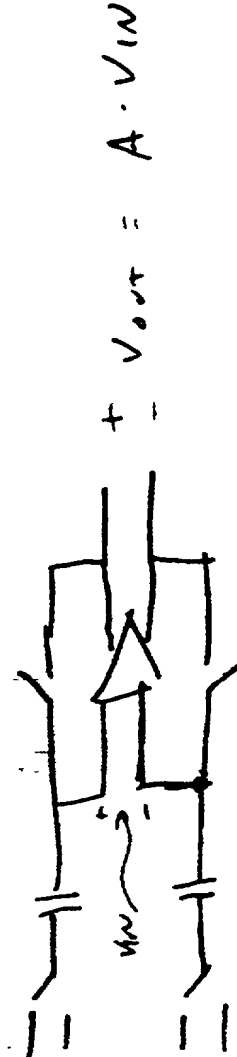
Alternate Experiments

of Differential Comparisons

FIG. 13D



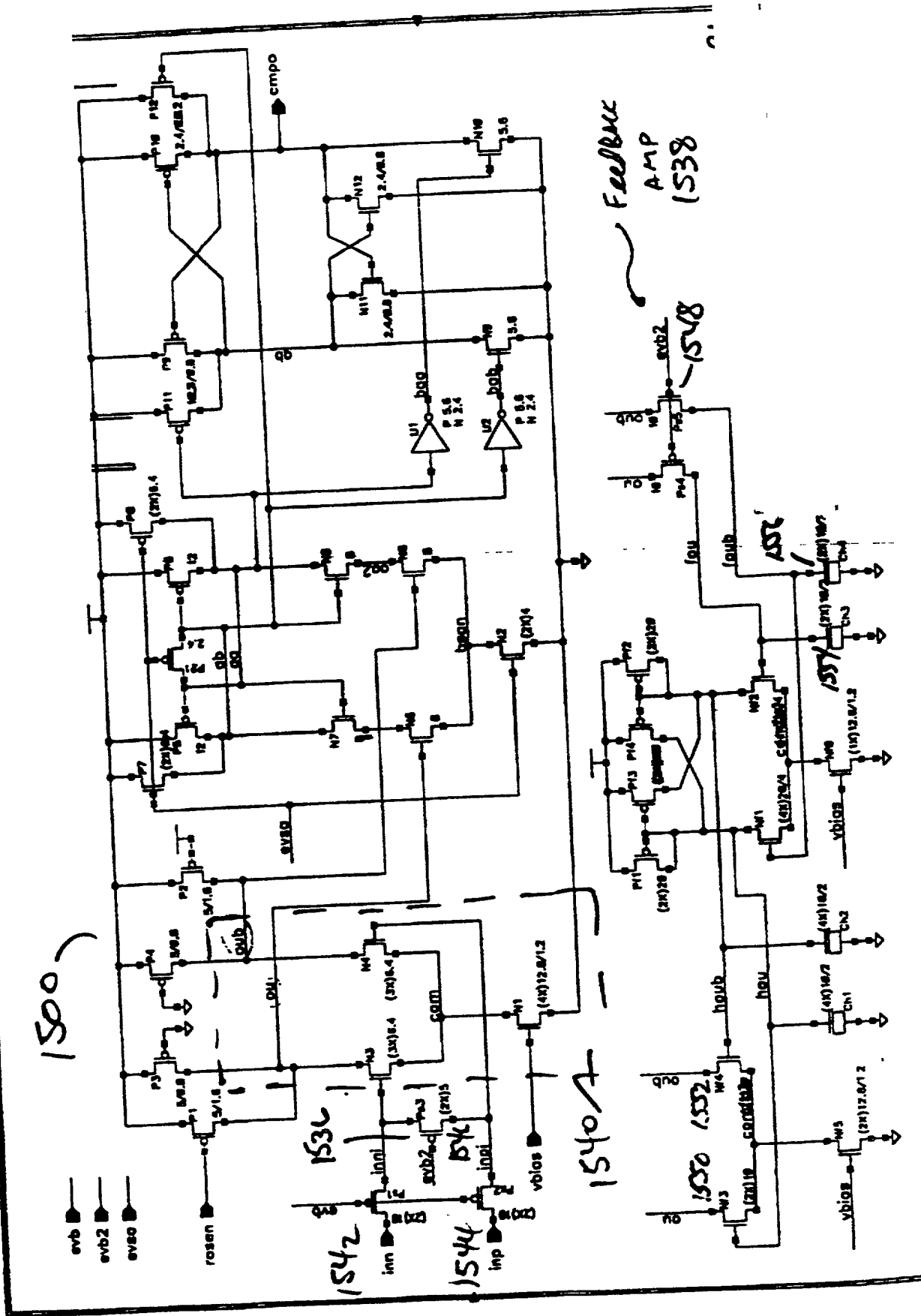
DIFFERENTIAL IN
SINGLE ENDED
OUT



Plb. 13E

LA + CHINA
STAGE

FIG 14B



000221" 0022460

Fig 14C

mismatch w/ os cancellation

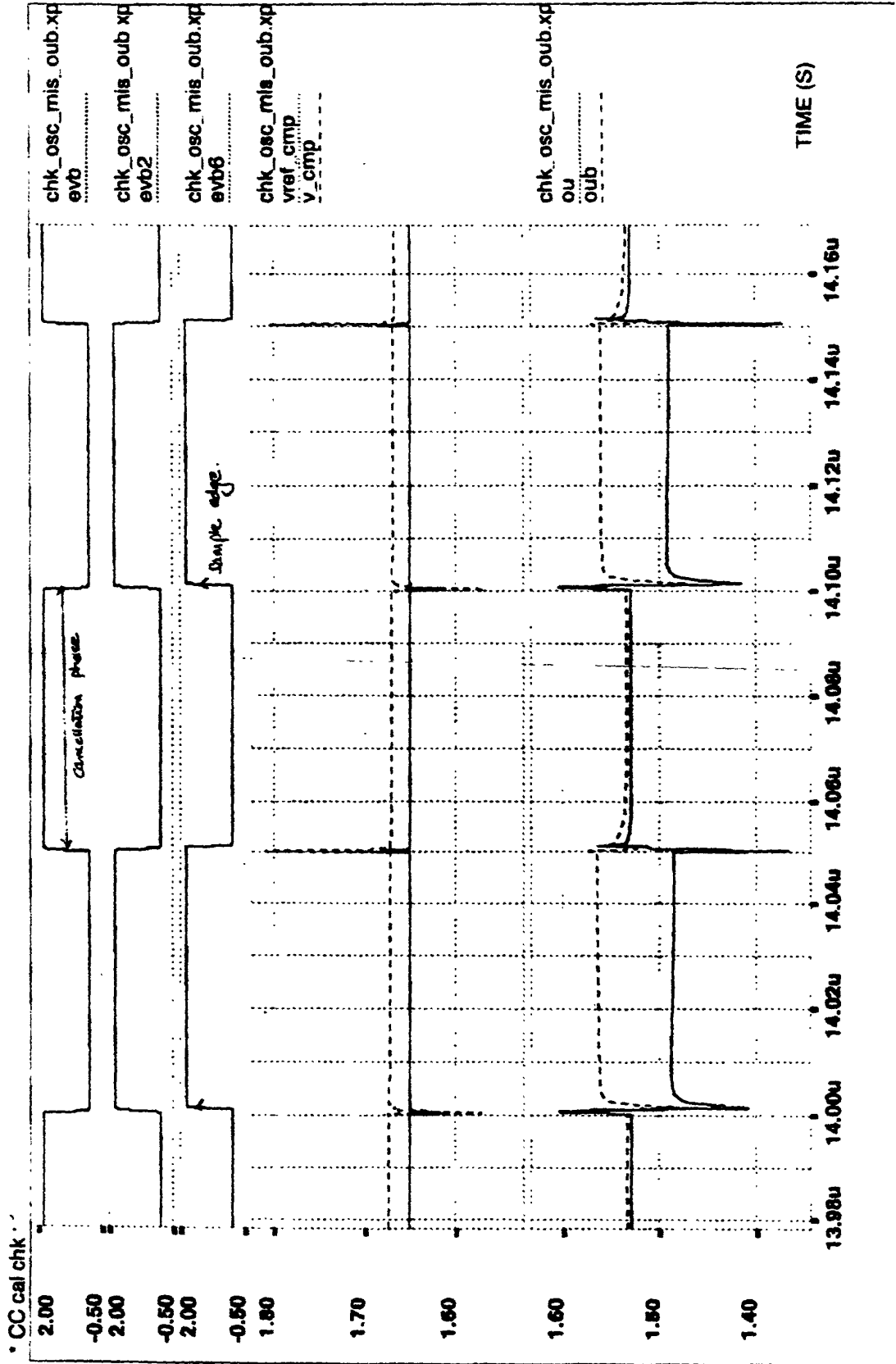


Fig 14D

• CC cal chk :

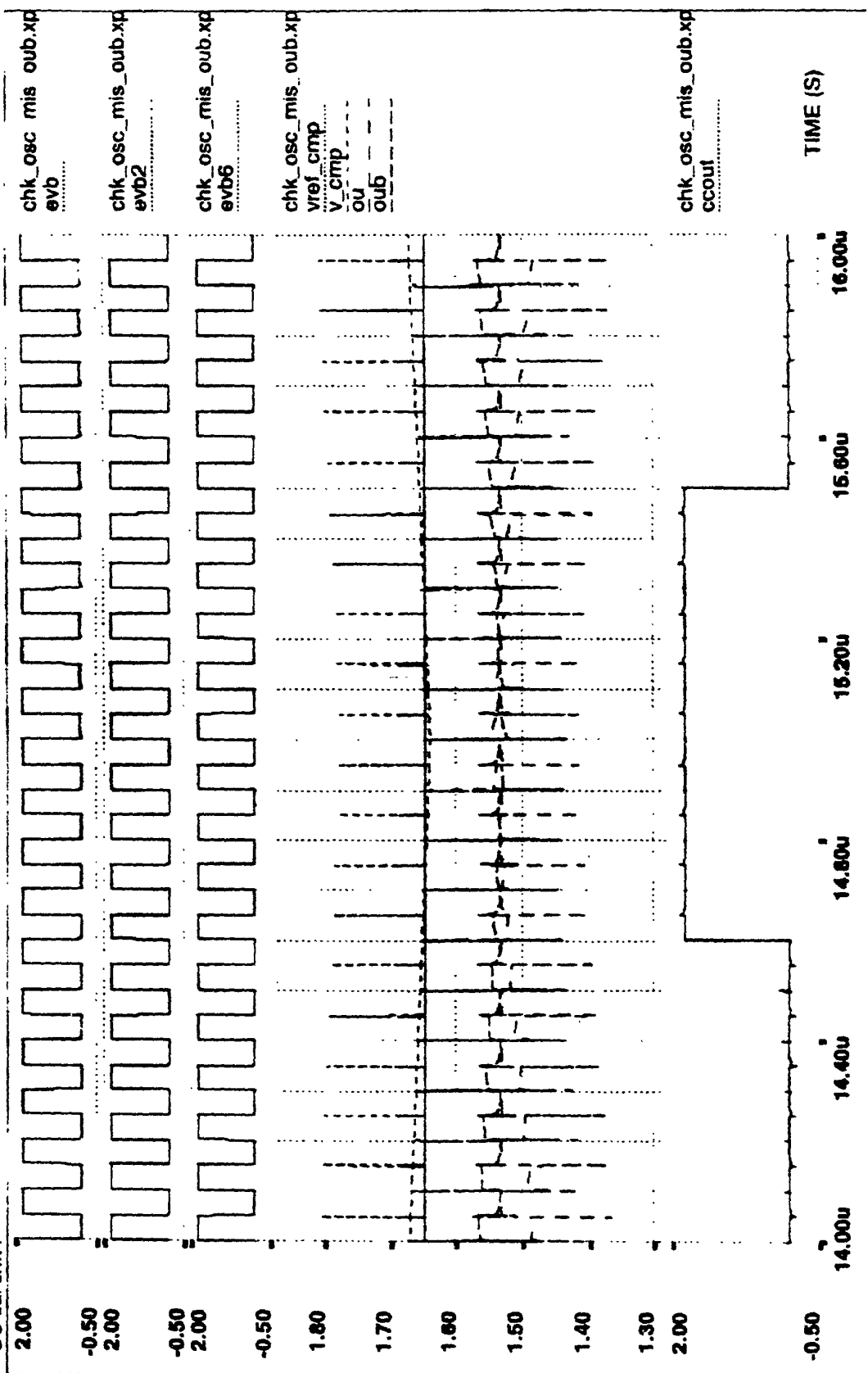
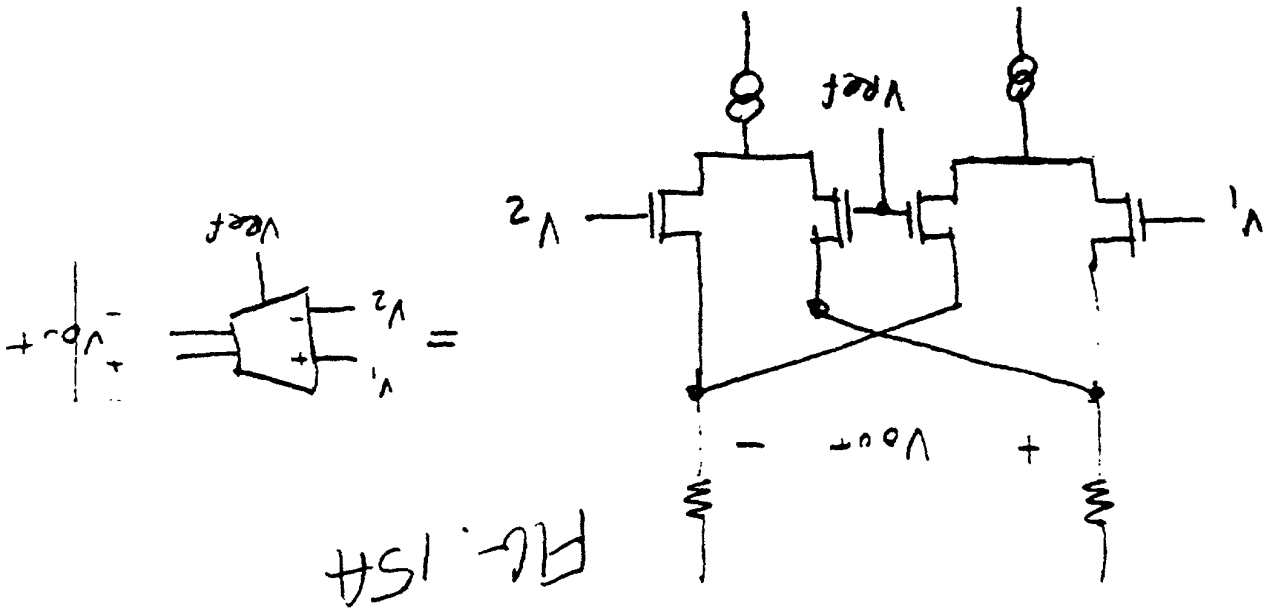
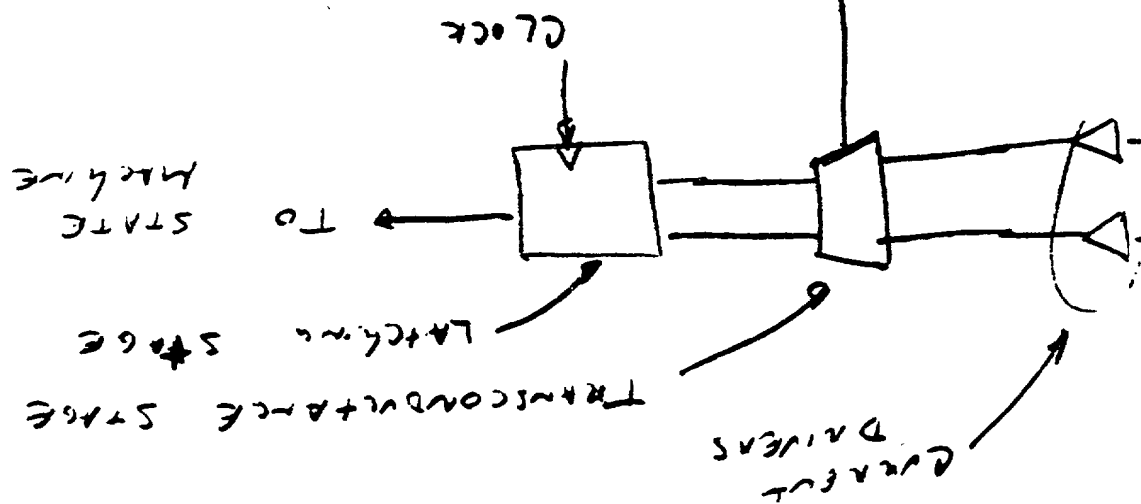


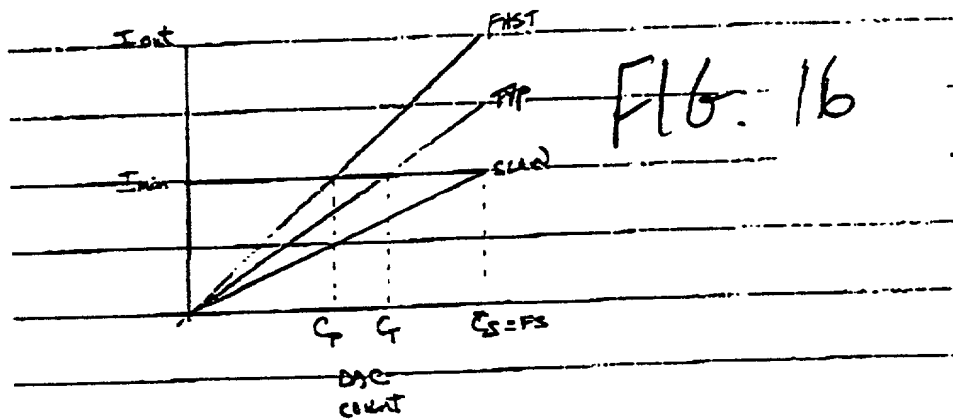
Figure 15.4: A differential amplifier circuit.



Multi Level
Reference
AND MUX

Fig. 15B





Output driver block diagram:

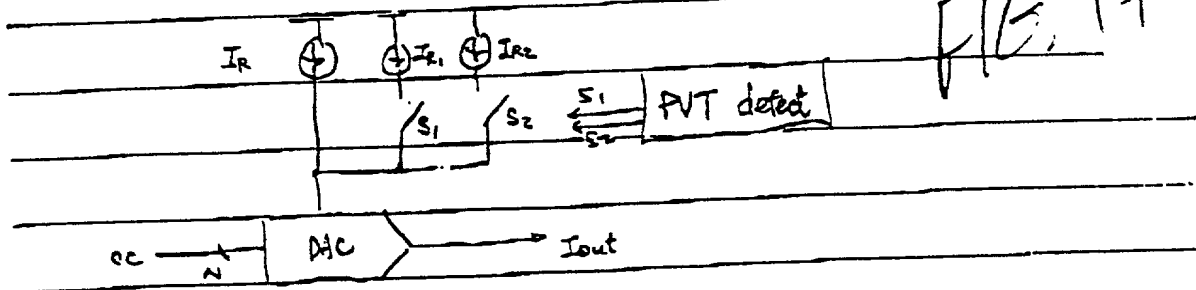


FIG. 18

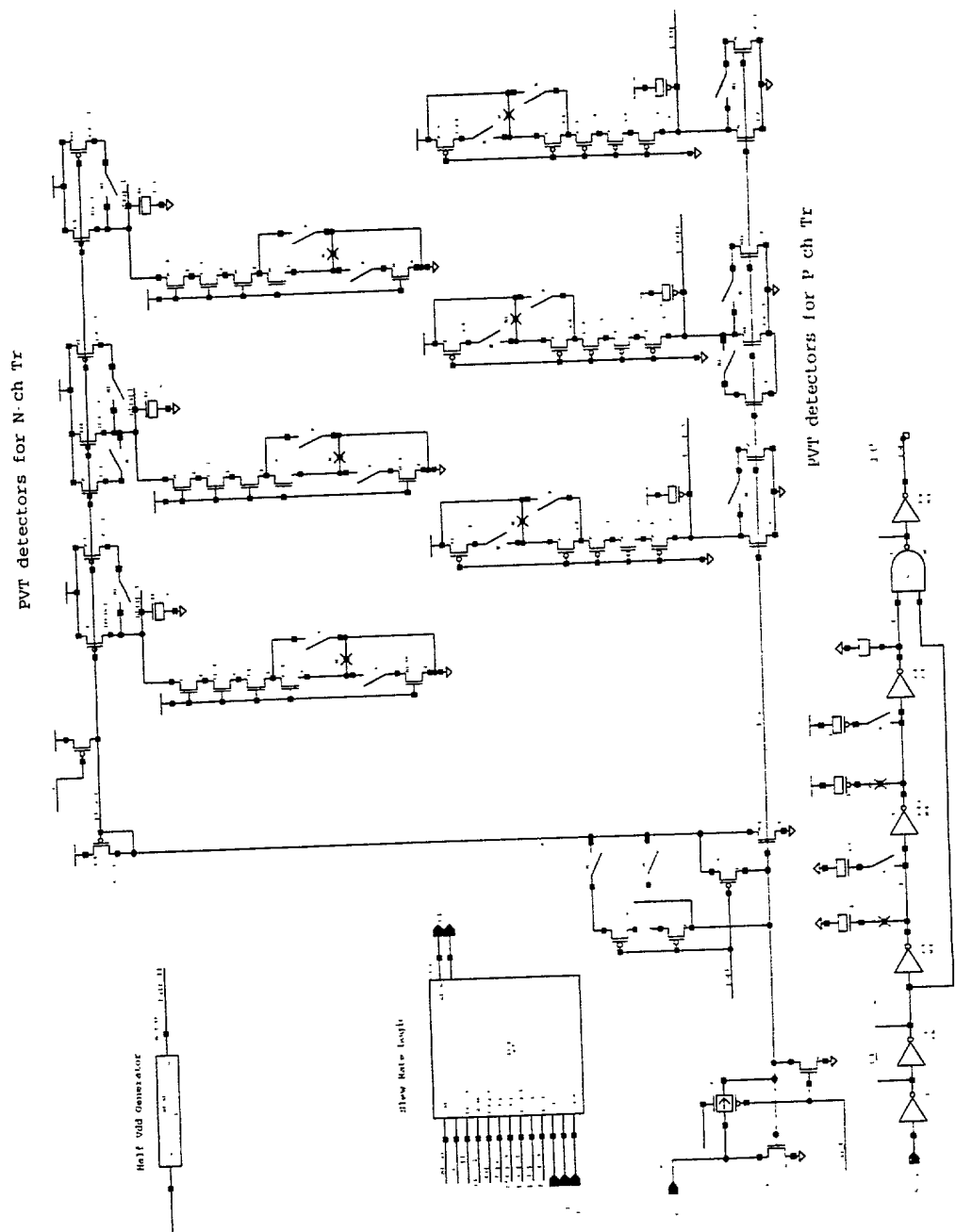


FIG 20A

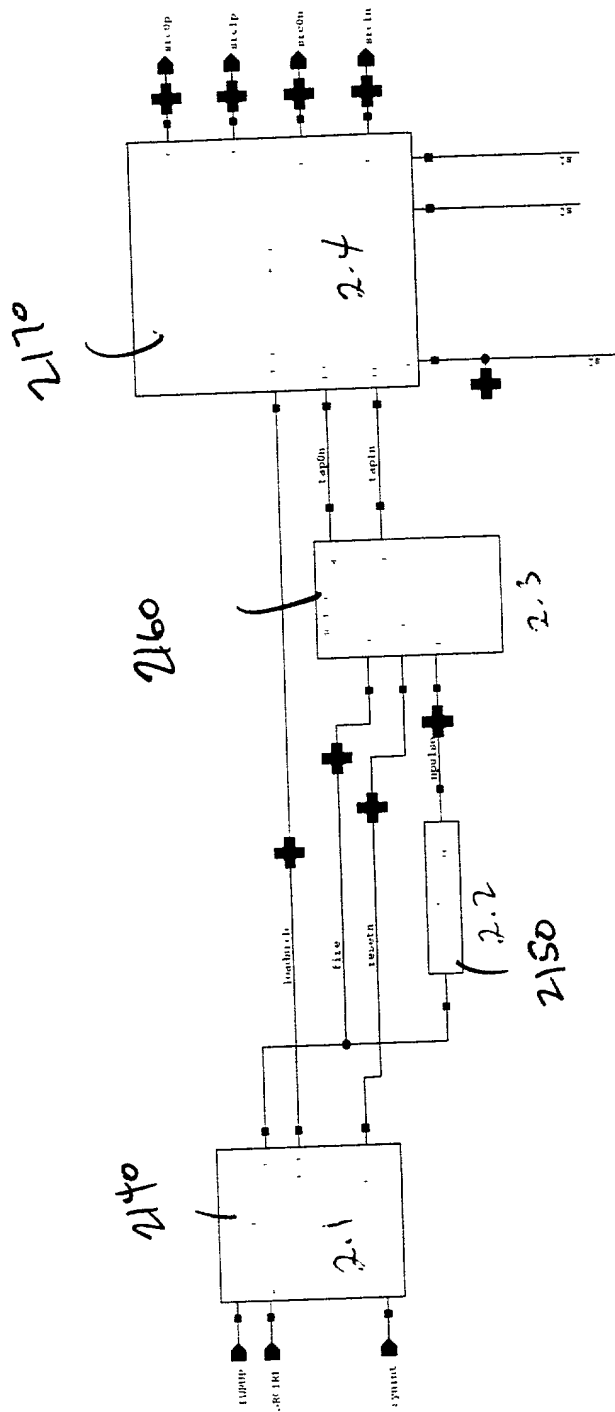
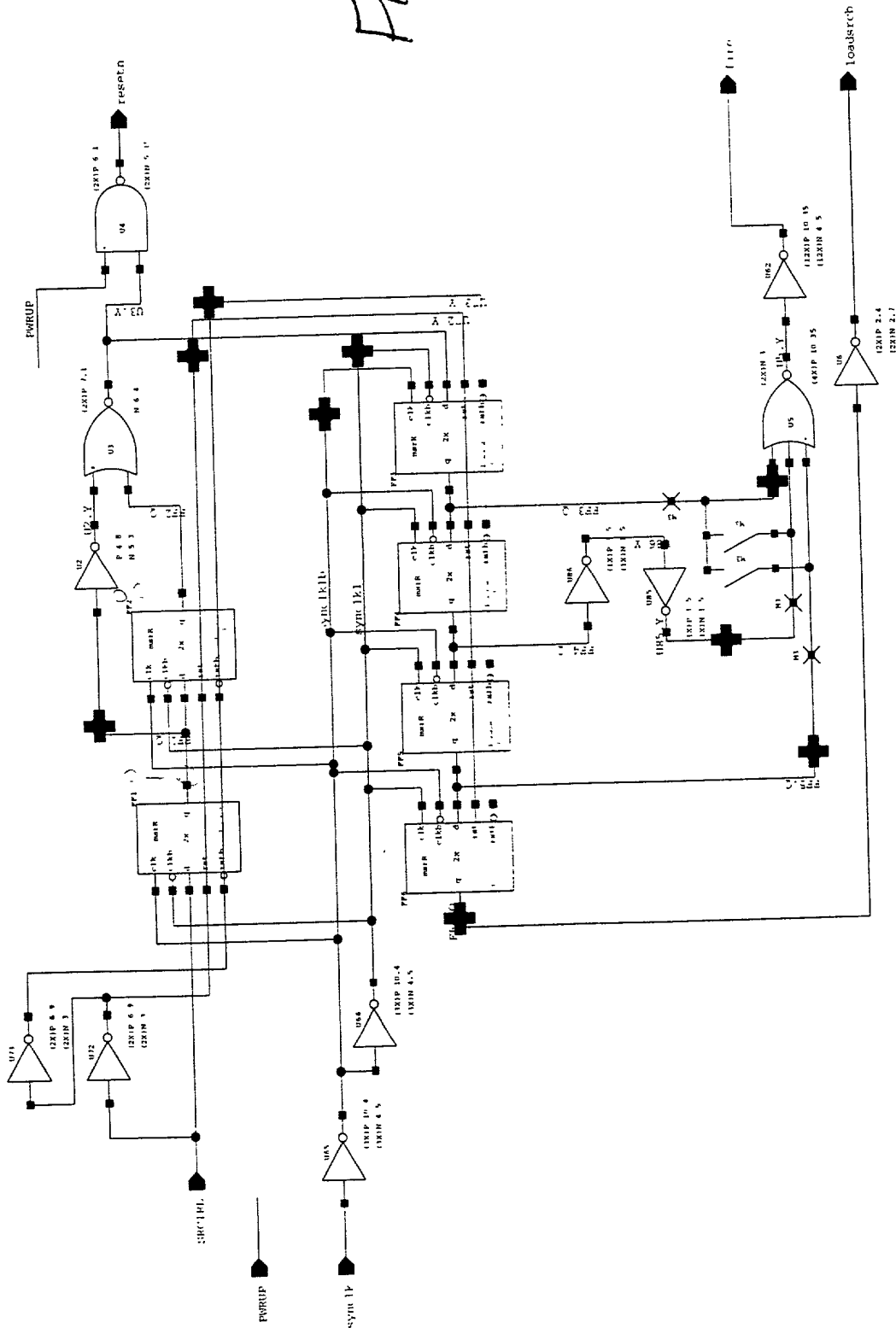
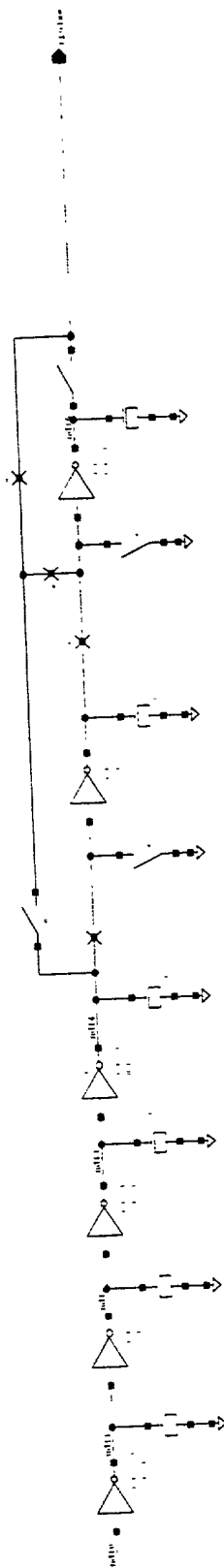
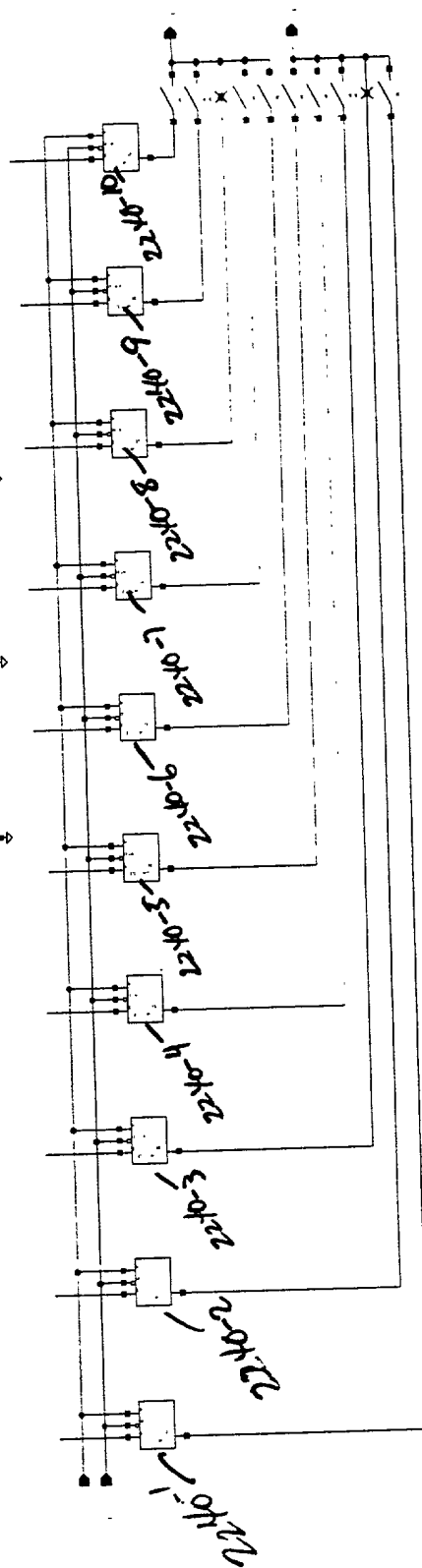


FIG. 20B



AG 20C



[illegible]

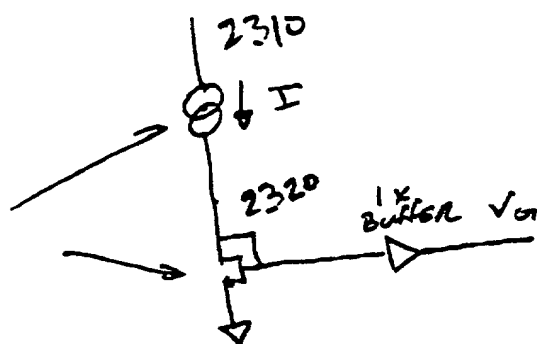
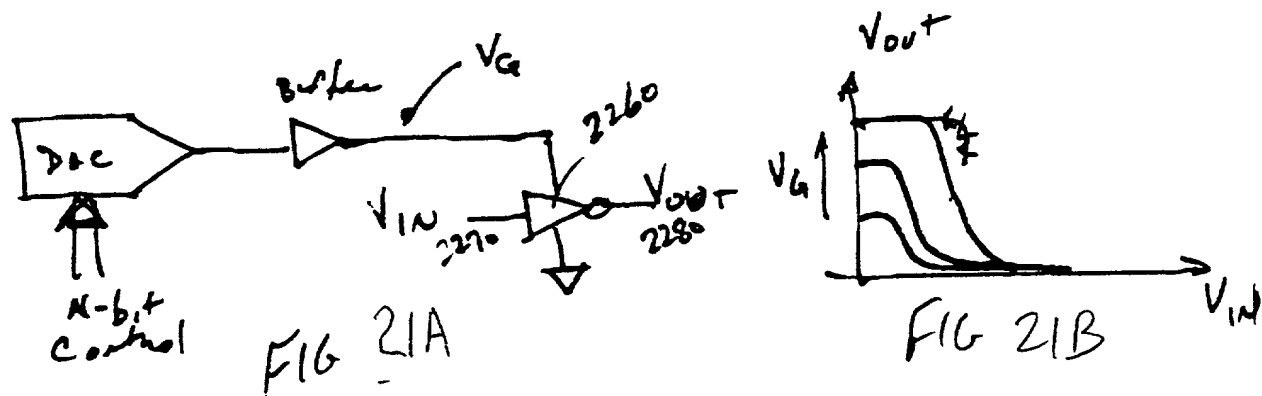


FIG 22

ALTERNATE EMBODIMENT of V_{gate} DAC

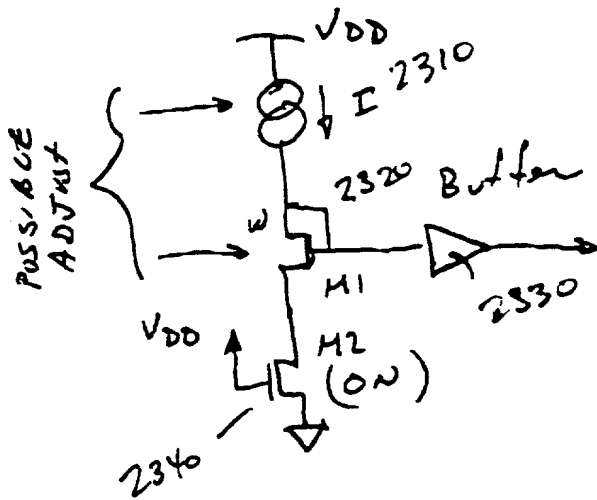


Fig. 23

M1, M2 SCALED to
MATCH actual output
DRIVER.

1. The circuit is a multi-stage amplifier with a differential input and a differential output. It consists of a first stage (U1, U2) and a second stage (U3, U4). The first stage is a differential pair with a common source resistor (R1) and a differential load (R2, R3). The second stage is a differential pair with a common source resistor (R4) and a differential load (R5, R6). The output is taken from the differential load of the second stage.

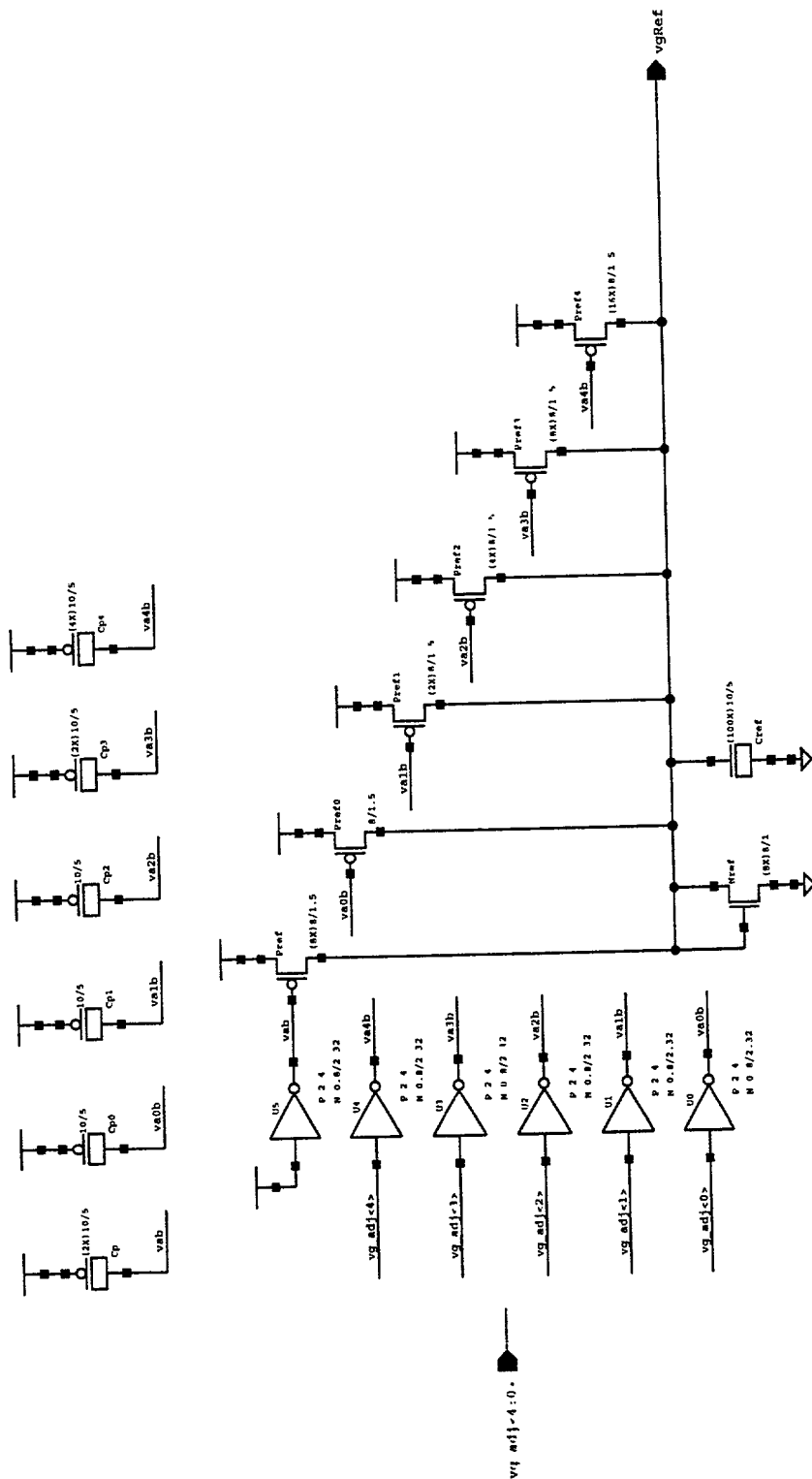


Fig. 24A

```

===== vgrep
===== vgrep_foox

```

